Sample 4: Modes and User File

Task: Show all cruises which use a yacht of charter yacht type ATLANTIC 29 listed in order of cruise starting date. Show how many cruises there are in each month.

1.

Present the data in a list

2.

Present the data with one record on each page

3.

Summarize the data

4.

Create a user file containing the data

This transaction uses the Selection Editor, a control field, a system function and special break conditions to select the data required. The transaction uses different transaction modes to present data as required and to create a user file which contains the report data.

The steps in this transaction are performed in a logical order. The order in which the steps are carried out is different to the order in the previous sample transactions.

Transaction Specification

Primary File	SAG-TOURS-E-CRUISE
Display Fields	1: CRUISE-ID 2:START-HARBOR 3:DESTINATION-HARBOR 4:START-DATE
Selection Criteria	CHARTER-YACHT-TYPE = 'ATLANTIC 29'
Control Field	START-DATE
Special Break Conditions	First 'n' characters: 6
System Functions	Count CRUISE-ID

This section covers the following topics:

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To create the transaction SAMPLE4:

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To Add a Transaction

1. Issue the ADD TRANSACTION SAMPLE4 command.

The Add Transaction window appears.

2. Type "Modes and User File" in the Description field (optional).

To Choose a File

The report requires data from the fileSAG-TOURS-E-CRUISE.

- 1. Type SAG-TOURS-E-CRUISE in the File Name field.
- 2. Press Enter.

The Worksheet appears.

To Choose Fields

The report requires data stored in the fieldsCRUISE-ID, START-DATE,START-HARBOR andDESTINATION-HARBOR.

• Type CRUISE-ID, START-DATE, START-HARBOR and DESTINATION-HARBOR beneath each other in the Field Name column..

Or:

Choose the fields using the Asterisk Listfunction as described in Step 3 in Sample 1.

To Determine Display Sequence for Horizontal Output

- 1. Type "1" in the Sequence column next to the fieldCRUISE-ID.
- 2. Type "2" in the Sequence column next to the fieldSTART-HARBOR.
- 3. Type "3" in the Sequence column next to the fieldDESTINATION-HARBOR.
- 4. Type "4" in the Sequence column next to the fieldSTART-DATE.

To Define Control Break Processing

The report requires all cruises which use a yacht of charter yacht type ATLANTIC 29 listed in order of cruise starting date. The number of cruises per month is to be displayed.

1. Type "C1" in the Sort/Control (S/C) column next to the fieldSTART-DATE.

The cruises will be listed in order of their starting date.

The data in the field START-DATE is stored in the format YYYYMMDD where the first four characters show the year, the third (3rd) and fourth (4th) the month and the fifth (5th) and sixth (6th) the day. You can use the Special Break Conditions function to define a control break when the first six characters of the fieldSTART-DATE change.

2. Enter "CB" in the Function (Func) column next to the fieldSTART-DATE.

The Special Break Conditions window appears.

3. Enter "6" in the First 'n' Characters field.

11:14 SAMPLE4	***** Super Natural ***** 1998-02-1 - Worksheet - SN301	٠ ا
AA 1K AE 1K 2 AJ 1K	Field Name +Special Break Conditions	+ ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !

A control break is defined when the month value of the fieldSTART-BREAKchanges.

4. Enter "SF "in the Function (Func) column next to the fieldCRUISE-ID.

The Specify System Functions window appears.

5. Mark the field next to the field START-DATE and below the field Cnt.

6. Press Enter.

The system function Count is carried out for the field CRUISE-ID at each control break of the fieldSTART-DATE.

To Define Selection Criteria

The report requires data for cruises of charter yacht type ATLANTIC 29.

1. Enter SEL in the command line.

The Selection Editor appears.

2. Enter "CHARTER-YACHT-TYPE = 'ATLANTIC 29'" in the editor area.

To Present the Data in a List

• Press PF11 (RUN).

The report is generated. Part of the resulting report is shown below:

11:21:10 CHARTER-YACHT-TYPE = 'ATLANTIC 29' ISAMPLE4								
CRUIS	E-ID START-HARBOR	DESTINATION-HARBOR	START-DATE					
	85 KIEL	KIEL	19910622					
	99 KIEL	KIEL	19910629					
	111 KIEL	KIEL	19910629					
** Control	Break (1) **							
START	-DATE: 19910629							
Cnt	9							
	112 KIEL	KIEL	19910713					
	113 KIEL	KIEL	19910720					
	86 KIEL	KIEL	19910727					
	Break (1) **							
	'-DATE: 19910727							
Cnt	3							
	114 KIEL	KIEL	19910803					
Enter-PF1-	Enter-PF1PF2PF3PF4PF5PF6PF7PF8PF9PF10PF11PF12							
	Print Exit	Flip +		Canc				

The field CHARTER-YACHT-TYPE now appears in the Field Name column of the Worksheet. The Worksheet now has the following entries:

11:15 SAMPLE4	**** Super Natural **** 1998-02-18 - Worksheet - SN3011						
Ref DB	Field Name	Seq	S/C	Func	Def	Info	Del
AA 1K	CRUISE-ID	1		>_			
AE 1K 2	START-DATE	4	C1_	>_			
AJ 1K	START-HARBOR	2					
AK 1K	DESTINATION-HARBOR	3					
AP 1 2	CHARTER-YACHT-TYPE						
BE							
BF							
BG							
BH							
BI							
ВЈ							
BK							
BL							
BM							
System functions have been updated Command ===>							
Enter-PF1	PF2PF3PF4PF5PF6P	F7PI	78P	F9	PF10-	-PF11-	PF12
Hel	p Next Exit Field Incl Flip -	+			Sel	Run	Canc

To Present the Data with One Record on Each Page.

You use the transaction mode Report Type VERTICAL LIST to present data with one record on each page as the report requires.

1. Press PF8 (EXIT) to leave the report.

The Worksheet appears.

2. Issue the MODES command.

The Transaction Modes Reporting window appears.

3. Enter "V" in the Report Typef ield as in the following example:

11:39 SAMPLE4	**** Super Natural **** 1998-02-18 - Worksheet - SN3011
AA 1K AE 1K 2 AJ 1K AK 1K	Field Name CRUISE-ID
	! ! ++

4. Press PF11 (RUN).

The report is generated. Part of the resulting report is shown below:

To Summarize the Data

You can just display the results of the system functions which are carried out at control breaks using the Report LevelSUMMARY.

1. Press PF2 (EXIT) to leave the report.

The Worksheet appears.

2. Issue the MODES command.

The Transaction Modes Reporting window appears.

- 3. Enter "L" in the Report Typefield.
- 4. Enter "S" in the Report Levelfield as in the following example:

11:39 SAMPLE4	**** Super N - Works	1998-02-18 SN3011	
AA 1K	CRUISE-ID		!
AE 1K 2 AJ 1K	START-DATE	! Data Selection F !	Full-screen!
	DESTINATION-HARBOR	! Data Change N	None!
BE		! Report Type L	List !
BF BG		! Report Level S !	Summary!
BH BI		! Destination S	Screen!
BJ BK		! Run Mode 0	Online !
BL		! Batch printer 0	
BM		! RJE available N !	(Y/N) !
		+	+

You can not have Report Level SUMMARY with Report Type VERTICAL.

5. Press PF11 (RUN).

The report is generated. Part of the resulting report is shown below:

```
11:18:21 CHARTER-YACHT-TYPE = 'ATLANTIC 29'
                                                           1998-02-18
ISAMPLE4
                                                             1
    CRUISE-ID START-HARBOR
                              DESTINATION-HARBOR START-DATE
** Control Break (1) **
   START-DATE : 19910330
    106 KIEL
                                                  19910330
Old
                             KIEL
Cnt
** Control Break (1) **
   START-DATE : 19910427
   98 KIEL
Old
                             KIEL
                                                  19910427
Cnt
** Control Break (1) **
   START-DATE: 19910525
Old 96 KIEL
                              KIEL
                                                  19910525
         5
Cnt
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
          Print Exit
                              Flip
```

The lines *Old* display the values in the last record found before the control break.

To Create a User File to Store the Report Data

You can create a user file to contain the report data by using the Report Destination USERFILE.

1. Press PF2 (EXIT) to leave the report.

The Worksheet appears.

2. Issue the MODES command.

The Transaction Modes Reporting window appears.

3. Enter "U" in the Report Destination field as in the following example:

11:39	**** Super Na	1998-02-1	
SAMPLE4	- Worksl	SN301	
AA 1K AE 1K 2 AJ 1K AK 1K	Field Name CRUISE-ID START-DATE START-HARBOR DESTINATION-HARBOR CHARTER-YACHT-TYPE	! Data Selection F !	Full-screen None List Summary User file Online (0 - 31)

4. Press Enter.

The Destination User File window appears with a default user file name and description as in the following example:

```
11:22
                   ***** Super Natural *****
                                                  1998-02-18
SAMPLE4
                        - Worksheet -
                                                     SN3011
Ref DB
     AA 1K
      CR !
AE 1K 2 ST ! Userfile name .. SAMPLE4___
                                                        !
AJ 1K ST ! Description
AK 1K DE! CREATED BY: SAMPLE4 (98-02-18 11:28)____
BE
                      _____! Report Level .... S Summary
BF
```

- 5. Modify user file name and description (optional).
- 6. Press Enter.

The Key column has been added to the worksheet. You must now mark at least one alphanumeric field of a length between 1 and 29 to make it a key field in the user file.

7. Mark the Key column next to the fieldDESTINATION-HARBOR.

The Worksheet now has the following entries:

18:02 SAMPLE4	***** Super Natural **** 1998-02-26 - Worksheet - SN3011							
Ref DB	Field Name CRUISE-ID START-DATE START-HARBOR DESTINATION-HARBOR CHARTER-YACHT-TYPE	1 4 2	S/C		Func >		Info	Del
Command = Enter-PF1	equired definitions ==> PF2PF3PF4PF5PF6P p Next Exit Field Incl Flip -			PF9	-PF10- Sel	PF1 Rur		

8. Press PF11 (RUN).

The report is generated. A user file is created. The user file now appears in the User File List screen. For further information on user files, see User Files in *Super Natural User's Guide*.